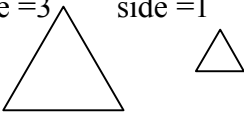


Name _____ Teacher Copy _____ Date _____ block _____

Comparing and Scaling Vocabulary

Vocabulary Word	Definition	Example 1	Example 2
Rate	a ratio comparing two different units	kilometers per hour	heartbeats per minute
Ratio	a comparison of two numbers using division (part to part <i>or</i> part to whole)	part to part: in the 7 th grade there are ... girls to ... boys	part to whole: in the 7 th grade there are ...girls to ... students
Scale	a ratio between two sets of measurements expressed as a factor	$\frac{3\text{girls}}{9\text{boys}} \Rightarrow$ There are 3 times as many girls as boys	
Unit Rate	a rate with a denominator of 1	32 miles per gallon	
Equivalent ratio	a ratio that has been scaled up or down but maintains the same relationship as the original ratio	2:4 :: 4:8	19:20 :: 57:60
Percent	a special ratio that compares a number to 100	18/20 on a quiz is 80%	4 dogs : 10 animals is 40%
Scale Factor	a ratio between the lengths of corresponding sides of two similar figures	side =3 side =1 	scale factor from figure 1 to figure 2 is 1/3 (draw)
Proportion	an equation showing that two ratios are equivalent	$\frac{3}{4} = \frac{x}{16}$	

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Comparing and Scaling Vocabulary

Vocabulary Word	Definition	Example 1	Example 2
Population Density	number of items in a given area	The population density of Bangladesh is 1045 people per square kilometer.	There are 12 pencils per box
Decimal	a number written using base ten/ a number containing a decimal point between the ones and the tenths place	15.78	3.4
Difference	answer to a subtraction problem	5-3=2 ie the difference is 2	100-25 =75 the difference is 75
Equation	a mathematical expression which includes an equal sign	25x=100	4x= 12
Fraction	a number less than 1, expressed as a division equation. has a numerator and a denominator	4/5	2/3
Graph, Coordinate graph	a 2-demensional system in which the coordinates of a point are its distances from two intersecting, usually perpendicular, straight lines called axis	(draw)	(draw)